D STATES PATENT AND TRADEMARK OFFICE

In re the Applicati Sadao KADOKURA et al. Group Art Unit: 1753

Serial Number: 10/721,081

Examiner: Rodney Glenn McDonald

Filed: November 26, 2003

Confirmation Number: 7841

For:

BOX-SHAPED FACING-TARGETS SPUTTERING APPARATUS AND METHOD FOR PRODUCING COMPOUND THIN FILM

> Attorney Docket Number: 032120 Customer Number: 38834

SUBMISSION OF DECLARATION UNDER 37 C.F.R. §1.131(b)

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

February 10, 2006

Sir:

Further in support of the Response filed on November 22, 2005 and the Supplemental Response filed on December 29, 2005, Applicants submit the attached Inventor's Declaration and Working Journal dated January 30, 2003 along with the translation thereof.

If any additional fees are due with this paper, please charge Deposit Account No. 50-2866.

Respectfully submitted,

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

Kenneth H. Salen Attorney for Applicants Registration No. 43,077

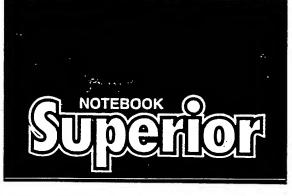
Telephone: (202) 822-1100 Facsimile: (202) 822-1111

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Enclosure(s): Inventor's Declaration

Working Journal dated January 30, 2003

Translation



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7mm×30Lines 30sheets

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BATE 2003 (: 30 (銀電砂型ユニット的効果では次一 HAV = 39.0 scan. 777. FE = 0.3 Pa. 7·Vスパンタ: 300 な (1A control) 空分DC. 1/A: 30781.0/1 009to 5600 : 3247x 1.55A 38 scem(03fa): 323 ×1,59 54 100 1 322 × 1.54 (Q5) 3207X1.54 32 (a3) 322.5 x1.50)2. (0.25) }22.4 X1.54 25 (12) 321.7×1.59 18 (0.15) 325,3 X1.59 11.5 (0.1) 335.0 × 1.54 334 × 1.49 5000 170-207(B) 500 TX 0. 1 Pa x 2 40 Mi. 23 21 St 2/2 177 X 1. 50 - 499 50 1155000 01/9 30°C 24°C 31°C 532 X 1.41°=498 (90%) (170-199) Sx 21°c. 3207 x 1.558 500 39.23:1 0.3 Pc 1' 27°C 320 x 1.55° 5000 2' 32°C 300 x 1.55 488 57990

Cover of Working Journal TRANSRATION

·Related to Organic EL (\mathbb{N})

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·etc.

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TRANSRATION



DATE 2003. 1. 30

ITO (Confirmation of the effect of the Cu electrode type unit

 $F_{Ar} *_1 = 39.0 \text{ sccm}$

gas pressure = 0.3 Pa

Pre-sputtering: 300 W (1 A control) Perfect DC						
	1 A		307 V	×	1.01 A	309 W
	500 W	:	324 V	×	1.55 A	
39 sccm (0.3 Pa): 323 × 1.54						
54	(0.4)	322	×	1.54	
70	(0.5)	320	×	1.54	
39	(0.3)	322.5	×	1.54	
32	(0.25)	3224	×	1.54	
25	(0.2)	322 7	×	1.54	
18	(0.15)	325 3	×	1.54	
11.5	(0.1)	335 0	×	1.54	
			334	×	1.49	500 W

Professor Hoshi

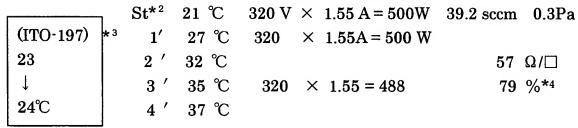
ITO-207 (B)

$$500 \text{ W} \times 0.1 \text{ Pa} \times 240 \text{ sec}$$

St* 2 21 °C 333 V × 1.5 A = 499W 11.5sccm 0.1Pa

$$\begin{bmatrix} 23 & 21 \\ \downarrow & \downarrow \\ 30^{\circ} C & 24^{\circ} C \end{bmatrix}^{*3} \begin{array}{c} 1' & 23^{\circ} C \\ 2 & ' & 24^{\circ} C \\ 3 & ' & 26^{\circ} C \\ 4 & ' & 27^{\circ} C \end{bmatrix}^{*3} \begin{array}{c} 24.2^{\circ} \Omega / \square \\ 302 \times 1.49 = 498 \text{ W} \\ 4 & ' & 27^{\circ} C \end{bmatrix}$$

ITO-208 (D) 500 W \times 0.3 Pa \times 240 sec



Notes *1: flow of Ar *2: start *3: measured with the conventional box-type unit after 2 minute-depositing *4: light transmittance